



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

SIXTH FLOOR
PRUDENTIAL BUILDING
195 NORTH TERRACE
ADELAIDE

RURAL PRODUCTION

SOUTH AUSTRALIA

YEAR ENDED 31ST MARCH 1963

SCOPE

This bulletin summarizes detailed information published in the Bulletin "Livestock, 31st March 1963" and "Cereals, Season 1962-63" recently issued from this Bureau, and shows in addition particulars concerning areas and yields of other crops, rural employment, use of artificial fertilizers, machinery on rural holdings, and direct oversea exports of rural produce. It also lists some South Australian records associated with rural production.

AREA AND
UTILIZATION
OF HOLDINGS

The total area of holdings decreased slightly during 1962-63 to 156,697,000 acres. The area of 11,448,000 acres under cultivation (crops, sown pasture, and fallow) was 506,000 acres more than the previous highest of 10,942,000 acres in 1961-62. The total area of crops increased from 4,509,000 acres in 1961-62 to 4,932,000 acres, the increase being mainly in the areas devoted to growing grain, hay, and forage.

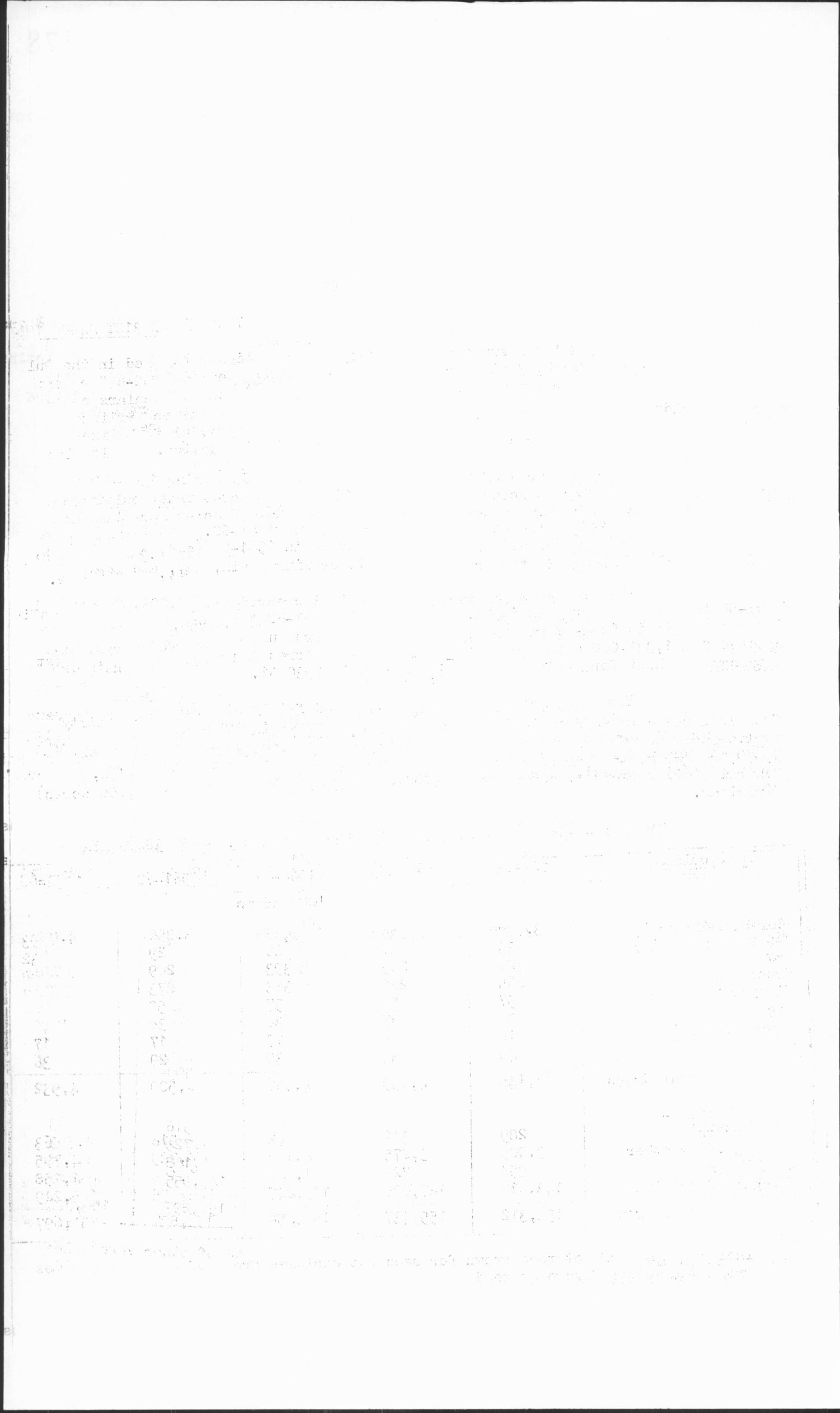
The area sown to cereals for grain increased from 3,009,000 acres in 1957-58 to 4,083,000 acres in 1960-61, declined in 1961-62 to 3,856,000 acres, but increased again in 1962-63 to 4,093,000 acres. The area under wheat for grain increased from 1,331,000 acres in 1957-58 to 2,595,000 acres in 1962-63. The greatest area sown to wheat for grain was 4,181,000 acres in 1930-31.

The areas of sown pastures increased fairly steadily for thirty years from less than 20,000 acres in 1920-21 to 1,066,000 acres in 1950-51. In the subsequent twelve years the area increased rapidly and in 1962-63 reached the record total of 5,350,000 acres, the largest increases occurring in the South Eastern (1,162,000 acres), Central (861,000 acres), Murray Mallee (782,000 acres), and Western (732,000 acres) Divisions.

TABLE 1 - AREA AND UTILIZATION OF RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
'000 Acres					
Cereals for grain	3,278	3,383	4,083	3,856	4,093
Field Peas (grain)	33	27	26	29	32
Hay	420	245	393	209	288
Green Forage	265	261	313	273	367
Vineyards	57	57	57	58	58
Orchards	37	37	38	38	41
Vegetables (a)	18	16	17	17	17
Other Crops	40	33	39	29	36
Total Crops	4,148	4,059	4,966	4,509	4,932
Sown Pastures -					
Lucerne	289	341	432	516	563
Clover & other	3,909	3,275	4,166	4,729	4,795
Fallow Land	954	726	1,045	1,188	1,158
Balance of Holdings	143,012	147,036	145,847	145,955	145,249
Total Area	152,312	155,437	156,456	156,897	156,697

(a) Includes areas of potatoes grown for seed but excludes areas of other vegetables grown for animal forage or seed.



RURAL
EMPLOYMENT

The following table shows for each of the last three years the number of persons employed in March and the value of wages paid (including keep where applicable) during the twelve months ended 31st March.

TABLE 2 - RURAL EMPLOYMENT (a), SOUTH AUSTRALIA

Particulars	1961		1962		1963	
	Males	Females	Males	Females	Males	Females
Permanent Workers -						
Owners, Occupiers, etc.	23,403	1,223	24,061	1,122	23,748	1,018
Unpaid relatives	2,626	522	1,734	462	1,696	413
Paid employees	7,926	551	7,947	499	7,890	460
Wages paid £'000	5,730	235	5,863	229	6,054	229
Temporary Workers (b) -						
Paid employees	17,116	4,626	15,140	4,661	14,106	4,715
Wages paid £'000	(c) 4,206	366	(c) 4,185	401	(c) 4,366	417

- (a) Excludes females engaged mainly in domestic duties and other workers engaged only part time.
 (b) Working full time during period of engagement.
 (c) Excludes payments for construction or development work.

ARTIFICIAL
FERTILIZERS
USED

The increases in the area under crop and the area of sown pastures in 1962-63 were matched by corresponding changes in areas fertilized (see Table 4). Of the 209,000 tons of superphosphate used on crops 15,000 tons contained trace elements while 31,000 tons with trace elements were included in the 208,000 tons used on pastures. There has been very little change in recent years in the proportion of area under crop fertilized and in the quantity of fertilizer per acre applied to crops and pasture.

TABLE 3 - PRINCIPAL CROPS AND PASTURES FERTILIZED, SOUTH AUSTRALIA, 1962

Particulars	Area Fertilized	Fertilizers Used		Total per Acre
		Superphosphate	Other	
	Acres	Tons	Tons	Lb.
Wheat (all purposes)	2,549,301	116,920	746	103.4
Vegetables	13,170	3,304	3,784	1205.6
Fruit and Vines	52,764	3,565	6,413	423.6
Other Crops	1,799,863	85,346	933	107.4
Total Crops	4,415,098	209,135	11,876	112.1
Pastures	3,750,105	207,519	2,032	125.2
Grand Total	8,165,203	416,654	13,908	118.1

TABLE 4 - CROPS FERTILIZED AND PASTURES TOP-DRESSED, SOUTH AUSTRALIA

Particulars	Unit	1959	1960	1961	1962
Crops fertilized	'000 acres	3,679	4,326	4,063	4,415
Fertilizer used	ton	188,733	209,387	206,047	221,011
Cropped area fertilized	%	90.6	87.1	90.1	89.5
Fertilizer per acre	lb.	114.9	108.4	113.6	112.1
Pastures fertilized	'000 acres	3,471	3,300	3,583	3,750
Fertilizer used	ton	202,895	189,704	198,186	209,551
Fertilizer per acre	lb.	130.9	128.8	123.9	125.2

- 3 -

AREA AND
YIELD OF
CROPS

Tables 5, 6, 7, and 8, show details of areas and yields of the principal crops grown in South Australia during 1962-63 compared with similar details for previous years.

The combined yields of cereals and the yield of hay in 1962-63 were higher than in 1961-62 but considerably lower than in the high rainfall year of 1960-61. Particulars of the cereal harvest are given in greater detail in the Bulletin "Cereals, Season 1962-63".

TABLE 5 - CEREALS AND HAY : AREA AND YIELD, SOUTH AUSTRALIA

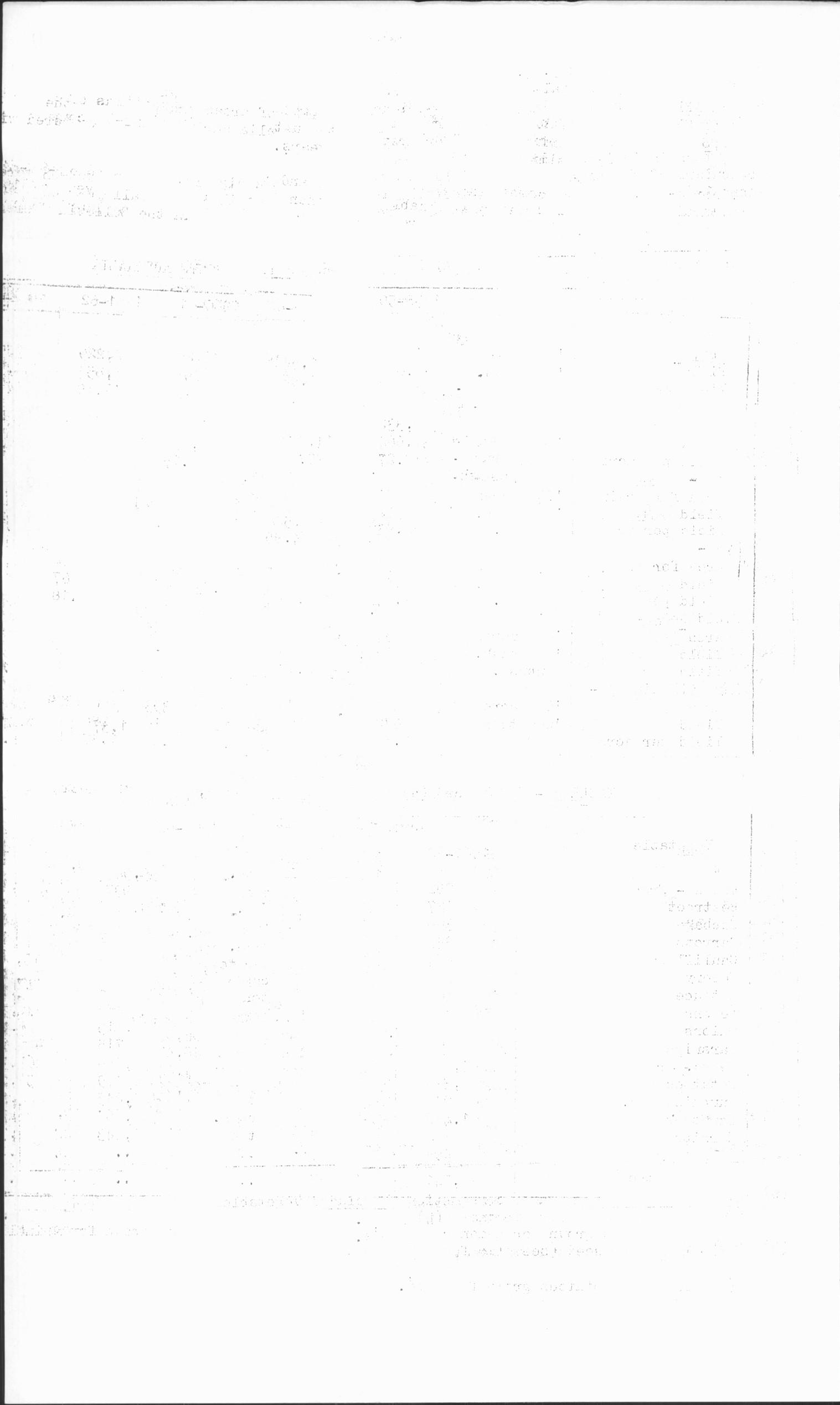
Particulars	Unit	1958-59	1959-60	1960-61	1961-62	1962-63
<u>Wheat -</u>						
Area for grain	'000 acres	1,407	1,549	1,969	2,229	2,595
Yield	'000 bush. bush.	32,032	11,929	46,396	33,854	38,339
Yield per acre	bush.	22.76	7.70	23.56	15.19	14.77
<u>Barley -</u>						
Area for grain	'000 acres	1,332	1,290	1,556	1,271	1,053
Yield	'000 bush. bush.	37,664	11,857	42,233	21,292	18,005
Yield per acre	bush.	28.27	9.19	27.15	16.75	17.10
<u>Oats -</u>						
Area for grain	'000 acres	481	505	512	324	416
Yield	'000 bush. bush.	11,992	2,504	11,478	4,391	5,770
Yield per acre	bush.	24.93	4.95	22.41	13.57	13.88
<u>Rye -</u>						
Area for grain	'000 acres	57	37	46	32	29
Yield	'000 bush. bush.	446	125	264	167	144
Yield per acre	bush.	7.81	3.35	5.73	5.18	4.92
<u>Field Peas -</u>						
Area for grain	'000 acres	34	27	26	29	32
Yield	'000 bush. bush.	518	58	358	256	392
Yield per acre	bush.	15.44	2.17	13.71	8.93	12.10
<u>Hay (all Kinds) -</u>						
Area	'000 acres	420	245	393	209	287
Yield	'000 tons	672	206	616	286	406
Yield per acre	ton	1.60	0.84	1.57	1.37	1.41

TABLE 6 - VEGETABLES (a) : AREA AND PRODUCTION, SOUTH AUSTRALIA

Vegetable	Acres		Unit	Yields	
	1961-62	1962-63		1961-62	1962-63
Beans - French	282	292	bush.	55,947	59,163
Beetroot	127	112	ton	937	918
Cabbage	368	394	doz.	167,047	173,472
Carrots	343	292	ton	4,367	4,118
Cauliflowers	494	495	doz.	182,259	189,746
Celery	348	340	crate	216,892	213,960
Lettuce	445	416	case	237,916	226,011
Melons	205	412	ton	1,158	1,627
Onions	753	944	ton	6,915	8,531
Parsnips	72	65	ton	718	658
Peas - Green	4,894	4,597	bush.	293,059	367,834
Potatoes (b)	5,316	5,918	ton	48,479	53,253
Pumpkins etc.	944	775	ton	4,845	4,171
Tomatoes	1,422	1,300	bush.	760,667	731,324
Turnips	234	208	ton	1,543	1,786
All other	494	527	..	..	..
Total	16,741	17,087	..	..	..

(a) Vegetables grown for human consumption. Excludes vegetables grown for animal forage or seed (see also footnote (b)).

(b) Includes potatoes grown for seed.



The area under vines (bearing and non-bearing) in 1962-63 was 58,266 acres (52,692 acres bearing and 5,574 acres non-bearing). Peak area was 62,121 acres in 1953-54. The 19,776,000 gallons of wine produced in 1962-63 was only 64.1 per cent of the record quantity of 30,831,000 gallons produced in 1961-62. There was a corresponding decrease in grapes harvested for winemaking.

TABLE 7 - VINEYARDS : AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Acres Bearing		Unit	Yield	1962-63
	1961-62	1962-63		1961-62	
Vines -					
Wine grapes	42,306	39,764	ton	172,009	116,081(b)
Table grapes	208	230	ton	1,037	1,078
Drying grapes	10,490	12,698	ton	46,956	47,264(b)
Total	53,004	52,692		220,002	164,423(b)
Produce -					
Wine (a)	..	..	'000 gal.	30,831	19,776(b)
Dried fruit -					
Currants	..	..	cwt	54,840	52,500(b)
Sultanas	..	..	cwt	189,020	185,740(b)
Raisins	..	..	cwt	24,460	31,840(b)

(a) Excludes fortifying spirits added. (b) Preliminary.

The total area of orchards has been increasing steadily in recent years, and records have been established in each year from 1956-57 (33,998 acres) to 1962-63 (40,444 acres). In 1962-63 record yields of apricots and oranges were obtained.

TABLE 8 - ORCHARDS : BEARING TREES AND YIELD, SOUTH AUSTRALIA

Variety	Bearing Trees		Unit	Yield	1962-63
	1961-62	1962-63		1961-62	
Almonds	303,203	294,753	cwt	17,314	15,198
Apples	545,559	558,919	bush.	1,275,710	1,495,841
Apricots	364,293	356,652	bush.	806,347	867,969
Cherries	52,251	50,968	bush.	49,636	35,329
Citrus -					
Lemons, Limes	19,906	19,425	bush.	38,933	48,065
Navel Oranges	319,998	330,096	bush.	891,643	1,269,307
Valencia Oranges	313,121	337,771	bush.	964,058	1,201,299
Other Citrus	54,165	56,254	bush.	191,127	257,678
Figs	14,016	11,012	bush.	15,893	11,614
Nectarines	17,575	15,466	bush.	33,716	32,385
Olives	33,323	36,197	cwt	(a) 5,431 (b)	
Peaches	348,493	365,802	bush.	842,409	841,437
Pears	164,988	168,641	bush.	434,480	412,156
Plums, Prunes	106,131	99,360	bush.	104,034	102,324

(a) Includes olives grown in parklands and reserves. (b) Not yet available.

BEEKEEPING

The production of honey and beeswax fluctuates considerably from year to year, depending upon seasonal conditions. The average yield of honey per productive hive decreased from 136.6 lb. in 1961-62 to 81.3 lb. in 1962-63, and the 4,147,215 lb. of honey produced was the lowest annual production since 1954-55 when only 3,671,249 lb. was obtained.

TABLE 9 - BEEKEEPING : HIVES AND PRODUCTION (a), SOUTH AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Beekeepers	838	823	838	906	824
Productive Hives	56,478	59,242	47,298	61,545	51,010
Unproductive Hives	16,569	11,504	18,658	10,162	18,590
Honey lb.	5,452,852	7,220,602	4,442,217	8,404,895	4,147,215
Beeswax lb.	80,173	106,211	59,227	123,298	56,199

(a) Excludes particulars for producers having less than 5 hives.

LIVESTOCK

During the 1962-63 season sheep numbers decreased by 678,000 and pig numbers by 25,000, but the numbers of dairy and beef cattle increased by 6,000 and 13,000 to the record figures of 280,000 and 398,000 respectively. New records were also set for milk and cheese production.

TABLE 10 - LIVESTOCK : NUMBERS AND PRODUCTION, SOUTH AUSTRALIA

Particulars	1958-59	1959-60	1960-61	1961-62	1962-63
Stock at end of year -					
			'000		
Sheep	15,634	14,025	14,952	16,415	15,737
Cattle -					
Dairy Cows (a)	188	170	170	183	190
Other Dairy	61	70	77	92	91
Beef	328	260	313	385	398
Horses	33	30	27	26	25
Pigs	98	109	144	170	145
Poultry	1,322	1,857	1,966	2,132	2,029
Lambing (b) -					
Ewes mated	6,010	6,746	5,797	7,076	6,934
Lambs marked	4,572	5,245	4,192	5,644	5,443
Slaughterings (c) -					
Sheep	1,760	2,236	1,573	1,645	1,748
Lambs	1,385	1,663	1,211	1,495	1,718
Cattle and Calves	287	238	174	201	254
Pigs	179	171	183	232	235
Production -			'000 Lb.		
Wool Clip	170,645	180,236	162,876	192,205	189,854
Wool Production (c)(d)	186,842	198,289	177,413	206,984	(e) 204,920
Butter (c)	16,103	14,151	15,610	16,861	(e) 16,608
Cheese (c)	25,088	24,483	28,345	32,835	(e) 33,966
Bacon and Ham (c)	6,875	6,979	7,035	7,475	(e) 7,664
			'000 Gallons		
Milk (c)	82,070	78,484	87,030	95,504	(e) 97,013

(a) Includes cows, "in milk" and "dry", and "springing" heifers.

(b) Calendar year first stated. (c) Year ended 30th June.

(d) Includes wool exported on skins and dead and fellmongered wool.

(e) Preliminary.

MACHINERY

Numbers of principal machines on rural holdings at 31st March in each of the last five years are shown in the following table:-

TABLE 11 - MACHINERY ON RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1959	1960	1961	1962	1963
Number					
Tractors - Wheeled	25,342	25,774	27,269	28,289	(a)
Crawler	3,190	3,191	3,405	3,499	(a)
Rotary Hoes	4,015	4,106	4,620	4,873	4,989
Fertilizer Distributors	7,545	7,695	8,000	8,271	8,213
Drills and Combines	19,278	19,608	19,760	20,086	20,316
Harvesters etc.	13,053	13,006	12,799	12,831	12,677
Hay Presses	715	700	719	655	(b)
Hay Balers	2,732	2,941	3,422	3,534	3,791
Milking Machines - No.	7,537	7,575	7,589	7,707	7,553
Units	17,777	17,920	18,235	18,831	18,836
Shearing Machines - No.	13,778	13,973	14,317	14,532	14,595
Stands	25,586	26,049	26,568	27,278	27,528

(a) Not yet available.

(b) Not collected.

1861-1862

PRODUCTION
RECORDS

New records were established in the 1962-63 season for the production of apricots, oranges, milk, and cheese, for the numbers of beef cattle and dairy cattle at 31st March, and for the area under sown pastures.

TABLE 12 - RURAL INDUSTRY : RECORD PRODUCTION, NUMBERS, ETC., SOUTH AUSTRALIA

Item	Unit	Quantity	Year	Item	Unit	Quantity	Year
Cereals -				Livestock			
Total yield -				Numbers -			
Wheat	'000 bush.	48,093	1931-32	Sheep	'000	16,415	1961-62
Barley	'000 bush.	42,233	1960-61	Beef cattle	'000	398	1962-63
Oats	'000 bush.	11,992	1958-59	Dairy cattle	'000	280	1962-63
Yield/acre -				Horses	'000	284	1912-13
Wheat (a)	bush.	23.56	1960-61	Pigs	'000	190	1939-40
Barley (a)	bush.	28.27	1958-59	Production -			
Oats (a)	bush.	24.93	1958-59	Wool -			
Vineyards -				Clip	'000 lb.	192,205	1961-62
Grapes (b)	ton	215,736	1952-53	Production	'000 lb.	206,984	1961-62
Currants	cwt	209,140	1943-44	Lambs marked	'000	5,644	1961-62
Raisins	cwt	117,505	1953-54	Butter	'000 lb.	22,938	1939-40
Sultanas	cwt	333,300	1943-44	Cheese	'000 lb.	(c) 33,966	1962-63
Wine	'000 gal.	30,831	1961-62	Bacon & ham	'000 lb.	11,735	1945-46
Orchards -				Honey	'000 lb.	10,906	1948-49
Almonds	cwt	17,937	1949-50	Area under -			
Apples	'000 bush.	1,750	1940-41	Crop	'000 acres	5,426	1930-31
Apricots	'000 bush.	868	1962-63	Fallow	'000 acres	2,607	1932-33
Oranges	'000 bush.	2,565	1962-63	Sown pastures	'000 acres	5,358	1962-63
Pears	'000 bush.	434	1961-62				

- (a) Slightly greater yields per acre were recorded from small acreages over 100 years ago.
 (b) Includes fresh grapes used for drying.
 (c) Preliminary.

DIRECT
OVERSEA
EXPORTS

The following table shows the quantities of principal rural products exported overseas from South Australian ports during the last five years; OVERSEA EXPORTS VIA OTHER STATES ARE EXCLUDED.

TABLE 13 - RURAL PRODUCTS : PRINCIPAL OVERSEA EXPORTS, SOUTH AUSTRALIA

Commodity	Unit	1958-59	1959-60	1960-61	1961-62	1962-63(a)
Butter	'000 lb.	1,039	596	607	465	182
Cheese	'000 lb.	8,972	8,976	11,164	15,706	15,039
Eggs - In Shell	'000 doz.	323	-	79	421	-
Not in Shell	'000 lb.	278	55	546	864	62
Fruit, Dried - Currants	'000 lb.	8,111	5,171	6,346	5,225	3,065
Raisins	'000 lb.	22,324	14,802	12,959	14,510	16,044
Other	'000 lb.	2,344	4,341	4,147	3,427	4,099
Fresh - Apples	'000 bush.	222	364	245	324	363
Preserved, Pulpel	'000 lb.	9,543	16,745	14,503	21,130	14,924
Flour (including Semolina)	ton	54,089	59,670	72,424	82,777	89,961
Grain - Wheat	'000 bush.	14,386	11,161	23,911	30,149	18,561
Barley	'000 bush.	17,683	13,705	22,427	24,768	6,885
Oats	'000 bush.	2,107	18	406	1,148	298
Honey	'000 lb.	1,116	2,517	3,140	3,069	1,971
Meat (Lamb)	'000 lb.	21,475	12,145	10,079	5,465	15,378
Sheep Skins	'000	3,061	4,213	2,977	3,161	3,422
Vine	'000 gal.	1,671	1,676	1,813	1,568	1,516
Wool - Greasy	'000 lb.	132,347	132,704	133,261	158,008	152,907
Other	'000 lb.	12,781	13,035	10,316	14,326	15,620

- (a) Preliminary.

D.L.J. AITCHISON

